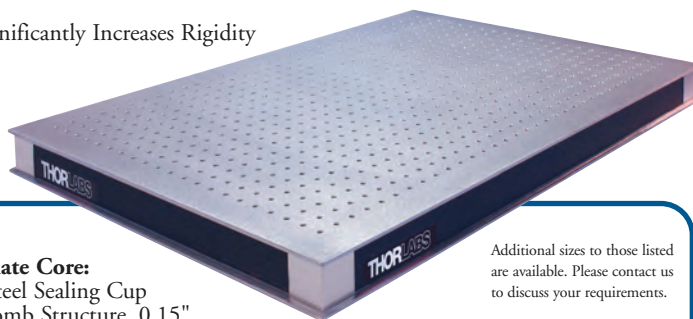


PerformancePlus™ Series of Optical Breadboards

PerformancePlus™ Optical Breadboards are designed specifically for demanding R&D applications. They combine all the features of the Performance™ breadboards but with enhanced damping, increased rigidity, and sealed mounting holes. Please refer to the selection guide on page 2 for details.

- Triple-Plate, Double-Core StableTop™ Construction Significantly Increases Rigidity
- Enhanced Damping Improves Dynamic Performance for the Most Critical Laboratory Applications
- Sealed Mounting Holes Make it Simple to Contain and Clean Up Spills or to Retrieve Small Objects
- Plated Steel Honeycomb Structure



Additional sizes to those listed are available. Please contact us to discuss your requirements.

Specifications

- **Flatness:** ±0.004" (0.10 mm) Over Any 11.8 in² Area (0.3 m²)
- **Thickness:** 2.4" (60 mm) or 4.3 (110 mm)
- **Construction:** Triple-Plate, Double Honeycomb-Core, Athermalized Design with Matching Plate Materials for Maximum Thermal Stability
- **Damping:** Enhanced
- **Main Core:** High-Density Plated Steel Honeycomb
- **Intermediate Core:**
 - Plated Steel Sealing Cup Honeycomb Structure, 0.15" (13 mm) Thick
 - Cell Size Approximately 0.25 in² (1.6 cm²)
- **Top Plate:** Magnetic Stainless Steel, 3/16" (5 mm) Thick, Brush Finished
- **Bottom Plate:** Magnetic Stainless Steel, 3/16" (5 mm) Thick
- **Sides:** Black Laminated Steel
- **Hole Spacing:**
 - Imperial: 1/4"-20 on 1" Centers
 - Metric: M6 on 25 mm Centers
- **Edge of Top Plate to First Hole:**
 - Imperial: 2"
 - Metric: 50 mm
- **Maximum Screw Depth:** 5/8" (16 mm) from Breadboard Surface

PerformancePlus™ Series Optical Breadboards, 2.4" (60 mm) Thick

Imperial PerformancePlus™ Optical Breadboards, 2.4" Thick

Stocked for Immediate Shipment

ITEM#	\$	£	€	RMB	DIMENSIONS	WEIGHT*
PBI11102	\$ 654.00	£ 453.40	€ 580,70	¥ 5,522.40	2' x 1' x 2.4"	35 lbs/16 kg
PBI11105	\$ 795.00	£ 551.20	€ 705,90	¥ 6,713.00	2' x 2' x 2.4"	95 lbs/43 kg
PBI11110	\$ 985.00	£ 682.90	€ 874,50	¥ 8,317.40	2.5' x 2.5' x 2.4"	139 lbs/63 kg
PBI11106	\$ 1,010.00	£ 700.20	€ 896,70	¥ 8,528.50	3' x 2' x 2.4"	141 lbs/62 kg
PBI11111	\$ 1,300.00	£ 901.20	€ 1,154,20	¥ 10,978.00	3' x 2.5' x 2.4"	136 lbs/78 kg
PBI11112	\$ 1,480.00	£ 1,026.00	€ 1,314,00	¥ 12,498.00	4' x 2.5' x 2.4"	225 lbs/102 kg
PBI11115	\$ 1,565.00	£ 1,085.00	€ 1,389,50	¥ 13,215.00	4' x 3' x 2.4"	268 lbs/121 kg
PBI11116	\$ 1,790.00	£ 1,241.00	€ 1,589,00	¥ 15,115.00	5' x 3' x 2.4"	333 lbs/151 kg
PBI11117	\$ 2,070.00	£ 1,435.00	€ 1,838,00	¥ 17,480.00	6' x 3' x 2.4"	396 lbs/180 kg

*The weights given are for the breadboards alone and do not include packaging.

Imperial PerformancePlus™ Optical Breadboards, 2.4" Thick

Call for Lead Time

ITEM#	\$	£	€	RMB	DIMENSIONS	WEIGHT*
PBI11114	\$ 1,345.00	£ 932.40	€ 1,194,20	¥ 11,358.00	3' x 3' x 2.4"	231 lbs/105 kg
PBI11107	\$ 1,160.00	£ 804.20	€ 1,029,90	¥ 9,795.10	4' x 2' x 2.4"	183 lbs/83 kg
PBI11113	\$ 1,650.00	£ 1,144.00	€ 1,465,00	¥ 13,933.00	5' x 2.5' x 2.4"	271 lbs/123 kg

*The weights given are for the breadboards alone and do not include packaging.

Metric PerformancePlus™ Optical Breadboards, 60 mm Thick

Stocked for Immediate Shipment

ITEM#	\$	£	€	RMB	DIMENSIONS	WEIGHT*
PBI51502	\$ 645.00	£ 447.20	€ 572,70	¥ 5,446.40	600 mm x 300 mm x 60 mm	29 lbs/13 kg
PBI51505	\$ 795.00	£ 551.20	€ 705,90	¥ 6,713.00	600 mm x 600 mm x 60 mm	90 lbs/41 kg
PBI51510	\$ 985.00	£ 682.90	€ 874,50	¥ 8,317.40	750 mm x 750 mm x 60 mm	139 lbs/63 kg
PBI51506	\$ 1,010.00	£ 700.20	€ 896,70	¥ 8,528.50	900 mm x 600 mm x 60 mm	114 lbs/52 kg
PBI51511	\$ 1,300.00	£ 901.20	€ 1,154,20	¥ 10,978.00	900 mm x 750 mm x 60 mm	172 lbs/78 kg
PBI51512	\$ 1,480.00	£ 1,026.00	€ 1,314,00	¥ 12,498.00	1200 mm x 750 mm x 60 mm	225 lbs/102 kg
PBI51515	\$ 1,565.00	£ 1,085.00	€ 1,389,50	¥ 13,215.00	1200 mm x 900 mm x 60 mm	297 lbs/135 kg
PBI51516	\$ 1,790.00	£ 1,241.00	€ 1,589,00	¥ 15,115.00	1500 mm x 900 mm x 60 mm	328 lbs/149 kg
PBI51517	\$ 2,070.00	£ 1,435.00	€ 1,838,00	¥ 17,480.00	1800 mm x 900 mm x 60 mm	300 lbs/136 kg

*The weights given are for the breadboards alone and do not include packaging.

Metric PerformancePlus™ Optical Breadboards, 60 mm Thick

Call for Lead Time

ITEM#	\$	£	€	RMB	DIMENSIONS	WEIGHT*
PBI51514	\$ 1,345.00	£ 932.40	€ 1,194,20	¥ 11,358.00	900 mm x 900 mm x 60 mm	198 lbs/90 kg
PBI51507	\$ 1,160.00	£ 804.20	€ 1,029,90	¥ 9,795.10	1200 mm x 600 mm x 60 mm	150 lbs/68 kg
PBI51513	\$ 1,650.00	£ 1,144.00	€ 1,465,00	¥ 13,933.00	1500 mm x 750 mm x 60 mm	278 lbs/126 kg

*The weights given are for the breadboards alone and do not include packaging.

PerformancePlus™ Series Optical Breadboards, 4.3" (110 mm) Thick

Imperial PerformancePlus™ Optical Breadboards, 4.3" Thick

Stocked for Immediate Shipment

ITEM#	\$	£	€	RMB	DIMENSIONS	WEIGHT*
PBI12115	\$ 1,680.00	£ 1,164.50	€ 1,491.50	¥ 14,186.00	4' x 3' x 4.3"	301 lbs/137 kg
PBI12116	\$ 1,880.00	£ 1,303.50	€ 1,669.00	¥ 15,875.00	5' x 3' x 4.3"	384 lbs/174 kg

*The weights given are for the breadboards alone and do not include packaging.

Call for Lead Time

ITEM#	\$	£	€	RMB	DIMENSIONS	WEIGHT*
PBI12110	\$ 1,035.00	£ 717.50	€ 918.90	¥ 8,739.60	2.5' x 2.5' x 4.3"	174 lbs/79 kg
PBI12106	\$ 1,125.00	£ 779.90	€ 998.80	¥ 9,499.60	3' x 2' x 4.3"	158 lbs/72 kg
PBI12111	\$ 1,335.00	£ 925.50	€ 1,185.30	¥ 11,273.00	3' x 2.5' x 4.3"	233 lbs/106 kg
PBI12107	\$ 1,290.00	£ 894.30	€ 1,145.30	¥ 10,893.00	4' x 2' x 4.3"	231 lbs/105 kg
PBI12112	\$ 1,520.00	£ 1,053.50	€ 1,349.50	¥ 12,835.00	4' x 2.5' x 4.3"	261 lbs/119 kg
PBI12113	\$ 1,690.00	£ 1,171.50	€ 1,500.50	¥ 14,271.00	5' x 2.5' x 4.3"	286 lbs/130 kg
PBI12117	\$ 2,210.00	£ 1,532.00	€ 1,962.00	¥ 18,662.00	6' x 3' x 4.3"	477 lbs/216 kg

*The weights given are for the breadboards alone and do not include packaging.

Metric PerformancePlus™ Optical Breadboards, 110 mm Thick

Stocked for Immediate Shipment

ITEM#	\$	£	€	RMB	DIMENSIONS	WEIGHT*
PBI52515	\$ 1,680.00	£ 1,164.50	€ 1,491.50	¥ 14,186.00	1200 mm x 900 mm x 110 mm	326 lbs/148 kg
PBI52516	\$ 1,880.00	£ 1,303.50	€ 1,669.00	¥ 15,875.00	1500 mm x 900 mm x 110 mm	397 lbs/180 kg
PBI52525	\$ 2,745.00	£ 1,903.00	€ 2,437.00	¥ 23,179.00	1800 mm x 1250 mm x 110 mm	613 lbs/278 kg

*The weights given are for the breadboards alone and do not include packaging.

Metric PerformancePlus™ Optical Breadboards, 110 mm Thick

Call for Lead Time

ITEM#	\$	£	€	RMB	DIMENSIONS	WEIGHT*
PBI52510	\$ 1,035.00	£ 717.50	€ 918.90	¥ 8,739.60	750 mm x 750 mm x 110 mm	181 lbs/82 kg
PBI52506	\$ 1,125.00	£ 779.90	€ 998.80	¥ 9,499.60	900 mm x 600 mm x 110 mm	156 lbs/71 kg
PBI52511	\$ 1,335.00	£ 925.50	€ 1,185.30	¥ 11,273.00	900 mm x 750 mm x 110 mm	189 lbs/86 kg
PBI52507	\$ 1,290.00	£ 894.30	€ 1,145.30	¥ 10,893.00	1200 mm x 600 mm x 110 mm	176 lbs/80 kg
PBI52512	\$ 1,520.00	£ 1,053.50	€ 1,349.50	¥ 12,835.00	1200 mm x 750 mm x 110 mm	251 lbs/114 kg
PBI52513	\$ 1,690.00	£ 1,171.50	€ 1,500.50	¥ 14,271.00	1500 mm x 750 mm x 110 mm	313 lbs/142 kg
PBI52523	\$ 2,120.00	£ 1,469.50	€ 1,882.00	¥ 17,902.00	1250 mm x 1250 mm x 110 mm	463 lbs/210 kg
PBI52517	\$ 2,210.00	£ 1,532.00	€ 1,962.00	¥ 18,662.00	1800 mm x 900 mm x 110 mm	428 lbs/194 kg

*The weights given are for the breadboards alone and do not include packaging.

Breadboards Without Mounting Holes

Thorlabs' Performance™ Optical Breadboards provide high performance at an economical price. These 2.4" (60 mm) thick optical breadboards offer the same construction techniques as our standard Performance Series range but without drilled holes in the top plate. They provide high stiffness and standard damping, making them an ideal solution for microscopy applications.



Custom Sizes
Available

Specifications

- **Flatness:** ±0.005" (±0.13 mm) over any 11.8 in² (0.3m²)
- **Thickness:** 2.4" (60 mm)
- **Construction:** Double Plate, Single Honeycomb Core, Athermalized Design
- **Core:** High-Density, Double-Plated Steel Honeycomb
- **Top and Bottom Plates:** Magnetic Stainless Steel, 3/16" (5 mm) Thick, Matched Materials for Athermalized Design
- **Damping:** Proprietary Broadband Damping
- **Sides:** Black Laminated Steel
- **Top Plate Finish:** Brushed Steel

Features

- Design for Excellent Thermal Stability
- Low Deflection Under Load
- Plated Steel Honeycomb Core Provides Both Static and Dynamic Rigidity
- Magnetic Stainless Steel Top and Bottom Plate
- Excellent Surface Flatness

Performance Series Breadboards, No Holes

Stocked for Immediate Delivery

ITEM#*	\$	£	€	RMB	SIZE	WEIGHT**
PBH11110/NH	\$ 635.10	£ 440.30	€ 563.90	¥ 5,362.80	2.5' x 2.5' x 2.4" (750 x 750 x 60 mm)	123 lbs/56 kg
PBH11106/NH	\$ 689.00	£ 477.70	€ 611.70	¥ 5,818.00	3' x 2' x 2.4" (600 x 900 x 60 mm)	114 lbs/52 kg
PBH11111/NH	\$ 869.00	£ 602.50	€ 771.60	¥ 7,337.90	3' x 2.5' x 2.4" (900 x 750 x 60 mm)	148 lbs/67 kg
PBH11114/NH	\$ 833.70	£ 578.00	€ 740.20	¥ 7,039.80	3' x 3' x 2.4" (900 x 900 x 60 mm)	174 lbs/79 kg
PBH11112/NH	\$ 985.00	£ 682.90	€ 874.50	¥ 8,317.40	4' x 2.5' x 2.4" (1200 x 750 x 60 mm)	194 lbs/88 kg
PBH11115/NH	\$ 1,054.00	£ 730.70	€ 935.80	¥ 8,900.00	4' x 3' x 2.4" (1200 x 900 x 60 mm)	231 lbs/105 kg

*Imperial and metric compatible

**The weights given are for the breadboards alone and do not include packaging.